

FIG. 2

FIG. 3

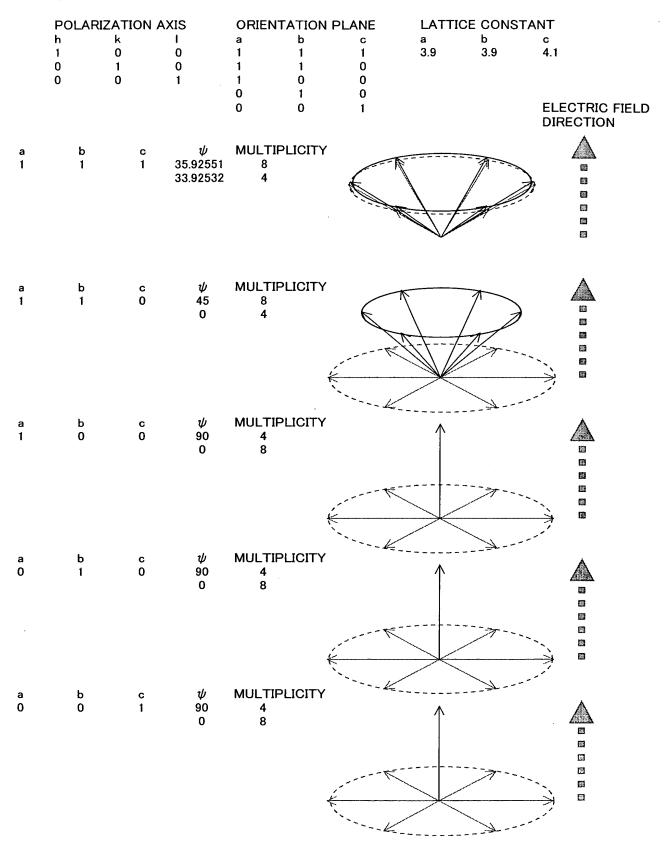
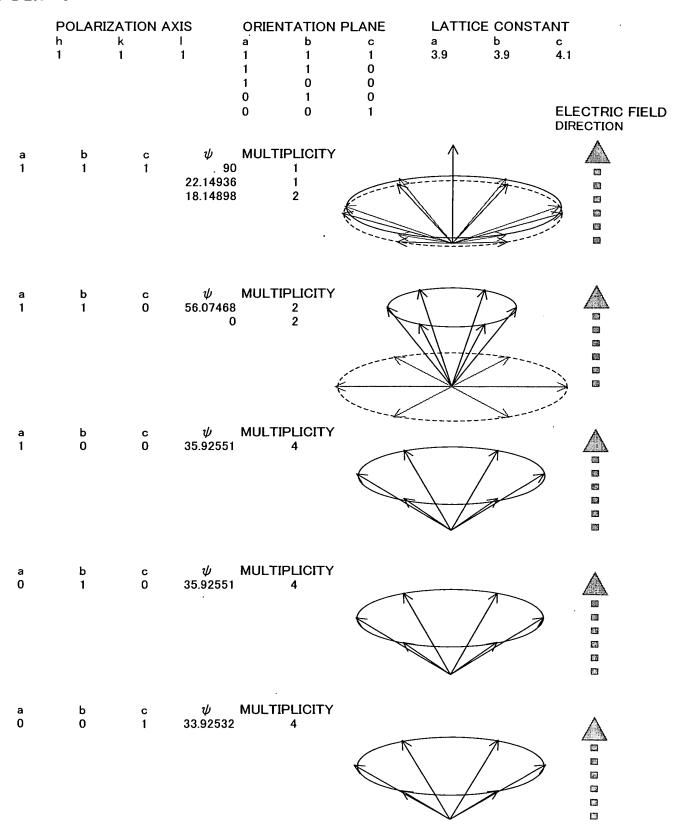


FIG. 4



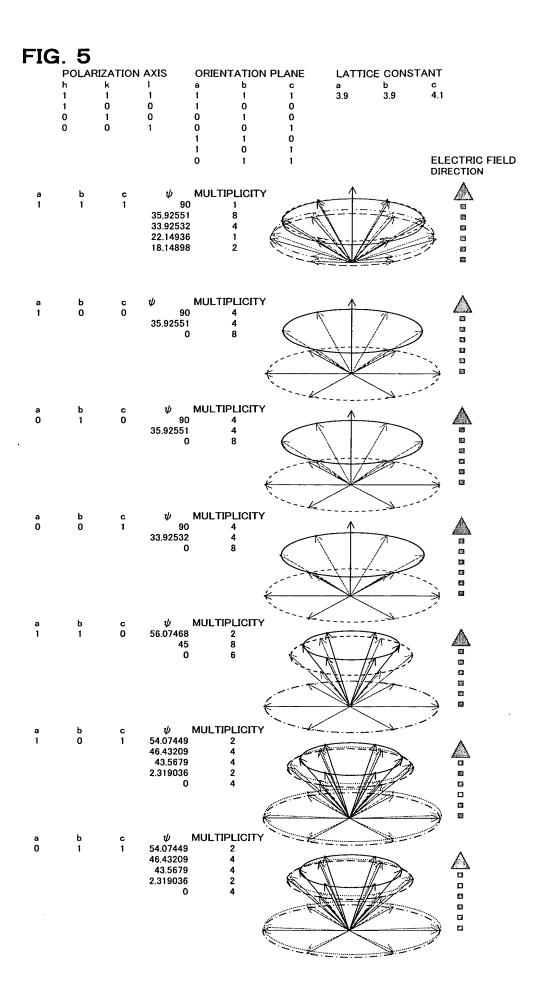


FIG. 6

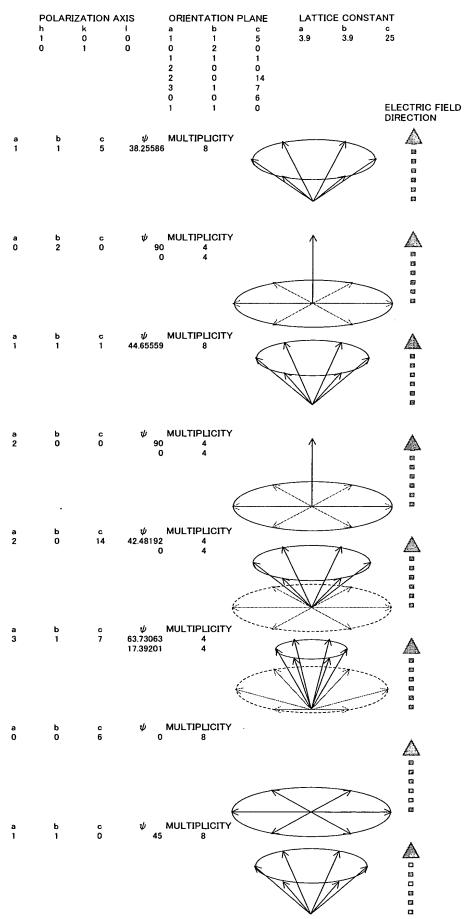
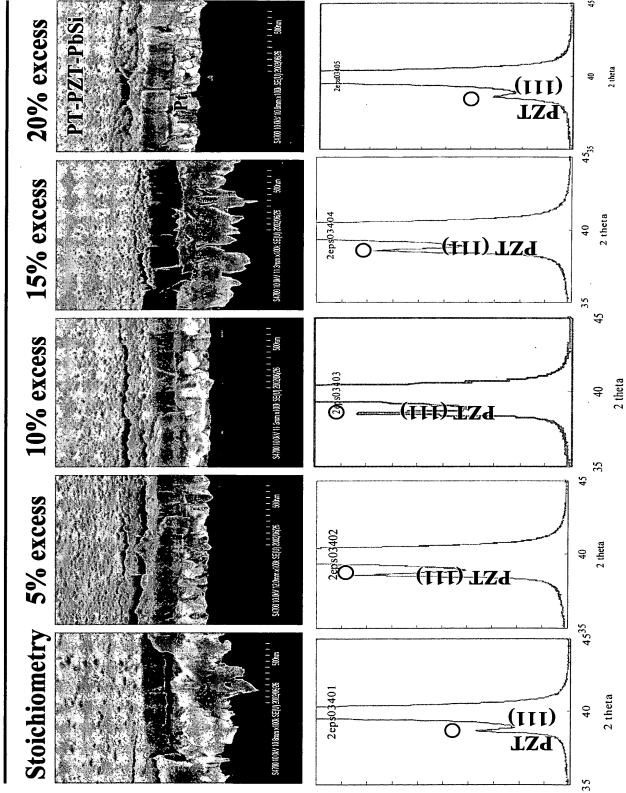
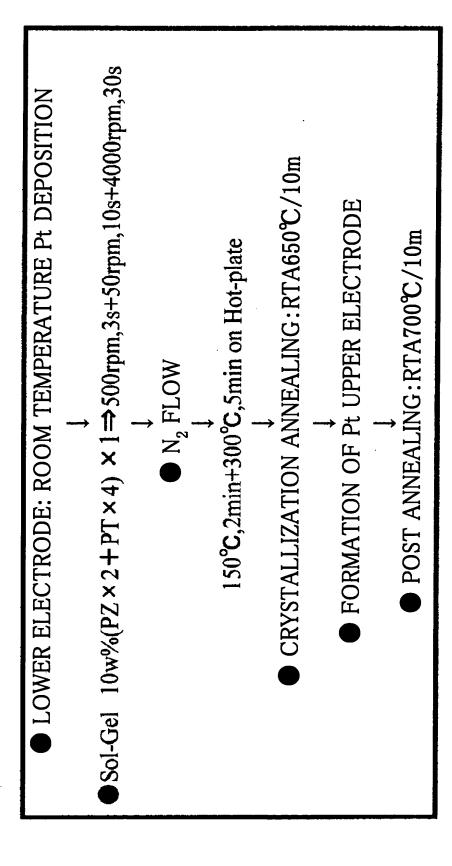


FIG. 7

IG	. /							
	POLARIZA		xis	ORIENTATION	PLANE	LATTICE	CONST	ANT
	h k 1 0 0 0	}	I O 1	a b 1 1 0 2 1 1 2 0 2 0 3 1 0 0 1 1 1	c 7 0 1 0 14 7 6	a 5.5	b 5.6	ELECTRIC FIELD DIRECTION
a 1	ь 1	c 7	ψ 40.64171 32.77644	MULTIPLICITY 4				
a 0	b 2	с 0	Ψ 0				7	
a 1	b 1	c 1	ψ 45.08411 6.990931					
a 2	b 0	с 0	ψ 90 0			1	7	
a 2	ь 0	c 14	ψ 50.26769 39.7323					
a 3	b 1	с 7	ψ 62.62942 20.86368	MULTIPLICITY 4 4				
a 0	b 0	6	ψ 90 0	MULTIPLICITY 4 4			7	
a 1	b 1	с 0	ψ 45.51616 0					

▶ LOWER ELECTRODE: ROOM TEMPERATURE Pt DEPOSITION ■ Sol-Gel 10w%(PZT(Zr/Ti=40/60)×4)×1⇒500rpm,3s+4000rpm,30s CRYSTALLIZATION ANNEALING:RTA650°C/10m FORMATION OF Pt UPPER ELECTRODE ■ POST ANNEALING: RTA700°C/10m 150°C,2min+300°C,5min on Hot-plate





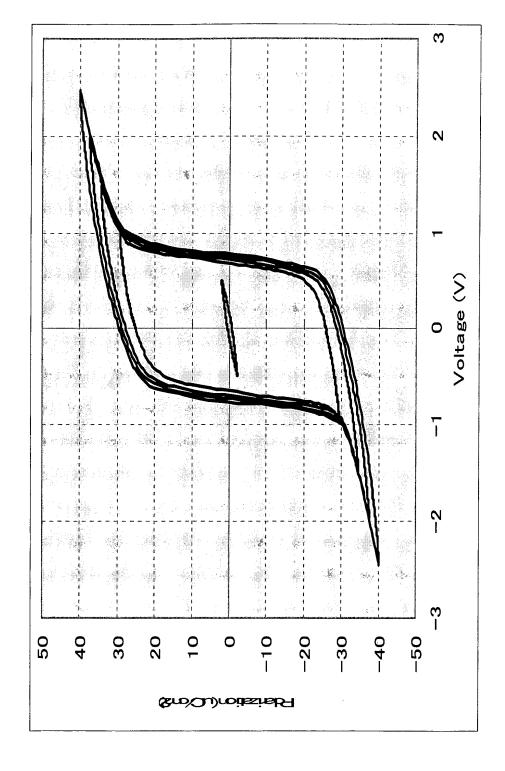


FIG.11

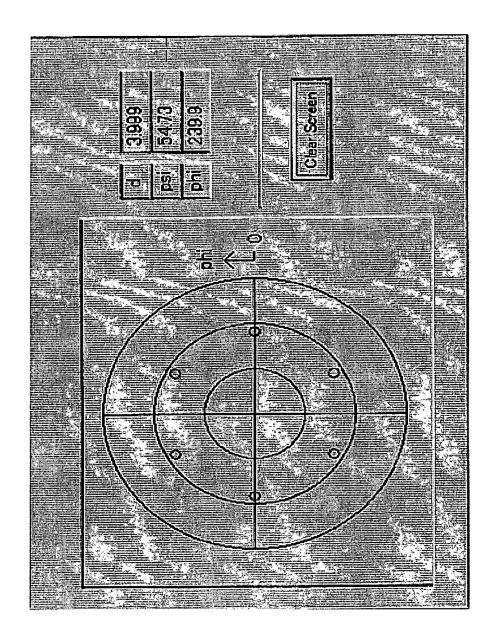


FIG. 13

